

OIKE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001

TIME: 14:59:09

Input Set : A:\DYX25seq.txt

Output Set: N:\CRF3\09062001\I932613.raw

3 <110> APPLICANT: Human Genome Sciences, Inc.
4 Beltzer, James P.
5 Potter, M. Daniel
6 Fleming, Tony J.
7 Rosen, Craig A.
9 <120> TITLE OF INVENTION: BINDING POLYPEPTIDES AND METHODS BASED THEREON
11 <130> FILE REFERENCE: Dyx-025.1 PCT; DYX-025.1 US
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/932,613
14 <141> CURRENT FILING DATE: 2001-08-17
16 <160> NUMBER OF SEQ ID NOS: 458
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 13
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: BLYS binding polypeptide
28 <220> FEATURE:
29 <221> NAME/KEY: MISC_FEATURE
30 <222> LOCATION: (1)..(1)
31 <223> OTHER INFORMATION: X1 is Ala, Asn, Lys, or Ser;
34 <220> FEATURE:
35 <221> NAME/KEY: MISC_FEATURE
36 <222> LOCATION: (2)..(2)
37 <223> OTHER INFORMATION: X2 is Ala, Glu, Met, Ser, or Val;
40 <220> FEATURE:
41 <221> NAME/KEY: MISC_FEATURE
42 <222> LOCATION: (3)..(3)
43 <223> OTHER INFORMATION: X3 is Ala, Asn, Lys, or Pro (preferably Lys);
46 <220> FEATURE:
47 <221> NAME/KEY: MISC_FEATURE
48 <222> LOCATION: (5)..(5)
49 <223> OTHER INFORMATION: X5 is Phe, Trp, or Tyr (preferably Tyr);
52 <220> FEATURE:
53 <221> NAME/KEY: MISC_FEATURE
54 <222> LOCATION: (7)..(7)
55 <223> OTHER INFORMATION: X7 is Pro or Tyr (preferably Pro);
58 <220> FEATURE:
59 <221> NAME/KEY: MISC_FEATURE
60 <222> LOCATION: (11)..(11)
61 <223> OTHER INFORMATION: X11 is Ala, Gln, His, Phe, or Val;
64 <220> FEATURE:
65 <221> NAME/KEY: MISC_FEATURE
66 <222> LOCATION: (12)..(12)
67 <223> OTHER INFORMATION: X12 is Asn, Gln, Gly, His, Ser, or Val;
70 <220> FEATURE:
71 <221> NAME/KEY: MISC_FEATURE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001

TIME: 14:59:09

Input Set : A:\DYX25seq.txt

Output Set: N:\CRF3\09062001\I932613.raw

72 <222> LOCATION: (13)..(13)

73 <223> OTHER INFORMATION: X13 is Ala, Asn, Gly, Ile, Pro, or Ser,

76 <400> SEQUENCE: 1

78 Xaa Xaa Xaa Cys Xaa Pro Xaa Thr Gly Cys Xaa Xaa Xaa

79 1 5 10

82 <210> SEQ ID NO: 2

83 <211> LENGTH: 14

84 <212> TYPE: PRT

85 <213> ORGANISM: Artificial Sequence

87 <220> FEATURE:

88 <223> OTHER INFORMATION: BLYS binding polypeptide

90 <220> FEATURE:

91 <221> NAME/KEY: MISC_FEATURE

92 <222> LOCATION: (1)..(1)

93 <223> OTHER INFORMATION: X1 is Ala, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys, Met, Phe,

Pro,

94 Ser, Thr, Trp, Tyr, Val, or is absent;

97 <220> FEATURE:

98 <221> NAME/KEY: MISC_FEATURE

99 <222> LOCATION: (2)..(2)

100 <223> OTHER INFORMATION: X2 is Ala, Asn, Asp, Gln, Gly, His, Ile, Leu, Lys, Met, Phe,

Pro,

101 Ser, Thr, Trp, Tyr, or Val;

104 <220> FEATURE:

105 <221> NAME/KEY: MISC_FEATURE

106 <222> LOCATION: (3)..(3)

107 <223> OTHER INFORMATION: X3 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys,

Met,

108 Phe, Pro, Ser, Trp, Tyr, or Val (preferably Asp);

111 <220> FEATURE:

112 <221> NAME/KEY: MISC_FEATURE

113 <222> LOCATION: (5)..(5)

114 <223> OTHER INFORMATION: X5 is Asp, Ile, Leu, or Tyr (preferably Asp or Leu);

117 <220> FEATURE:

118 <221> NAME/KEY: MISC_FEATURE

119 <222> LOCATION: (6)..(6)

120 <223> OTHER INFORMATION: X6 is Arg, Asp, Glu, His, Ile, Leu, Lys, Phe, Pro, Tyr, or

Val (

121 preferably Glu or Leu);

124 <220> FEATURE:

125 <221> NAME/KEY: MISC_FEATURE

126 <222> LOCATION: (7)..(7)

127 <223> OTHER INFORMATION: X is His, Leu, Lys, or Phe

130 <220> FEATURE:

131 <221> NAME/KEY: MISC_FEATURE

132 <222> LOCATION: (8)..(8)

133 <223> OTHER INFORMATION: X is Leu, Pro, or Thr

136 <220> FEATURE:

137 <221> NAME/KEY: MISC_FEATURE

138 <222> LOCATION: (9)..(9)

139 <223> OTHER INFORMATION: X is Arg, Asn, Gly, His, Ile, Lys, Met, or Trp

142 <220> FEATURE:

143 <221> NAME/KEY: MISC_FEATURE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001

TIME: 14:59:09

Input Set : A:\DYX25seq.txt

Output Set: N:\CRF3\09062001\I932613.raw

144 <222> LOCATION: (10)..(10)
 145 <223> OTHER INFORMATION: X10 is Ala, Gln, Glu, Gly, His, Ile, Leu, Met, Phe, Ser,
 Trp, Tyr
 146 , or Val;
 149 <220> FEATURE:
 150 <221> NAME/KEY: MISC_FEATURE
 151 <222> LOCATION: (12)..(12)
 152 <223> OTHER INFORMATION: X12 is Asp, Gln, Glu, Gly, Ile, Leu, Lys, Phe, Ser, Trp,
 Tyr, or
 153 Val;
 156 <220> FEATURE:
 157 <221> NAME/KEY: MISC_FEATURE
 158 <222> LOCATION: (13)..(13)
 159 <223> OTHER INFORMATION: X13 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Leu, Lys,
 Met, Phe
 160 , Pro, Ser, Thr, Trp, Tyr, or Val;
 163 <220> FEATURE:
 164 <221> NAME/KEY: MISC_FEATURE
 165 <222> LOCATION: (14)..(14)
 166 <223> OTHER INFORMATION: X14 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu,
 Lys, Phe
 167 , Pro, Trp, Tyr, Val, or is absent
 170 <400> SEQUENCE: 2
 172 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
 173 1 5 10
 176 <210> SEQ ID NO: 3
 177 <211> LENGTH: 15
 178 <212> TYPE: PRT
 179 <213> ORGANISM: Artificial Sequence
 181 <220> FEATURE:
 182 <223> OTHER INFORMATION: BLYS binding polypeptide
 184 <220> FEATURE:
 185 <221> NAME/KEY: MISC_FEATURE
 186 <222> LOCATION: (1)..(1)
 187 <223> OTHER INFORMATION: X1 is Ala, Arg, Asn, Asp, Leu, Lys, Phe, Pro, Ser, or Thr;
 190 <220> FEATURE:
 191 <221> NAME/KEY: MISC_FEATURE
 192 <222> LOCATION: (2)..(2)
 193 <223> OTHER INFORMATION: X2 is Asn, Asp, Gln, His, Ile, Lys, Pro, Thr, or Trp;
 196 <220> FEATURE:
 197 <221> NAME/KEY: MISC_FEATURE
 198 <222> LOCATION: (3)..(3)
 199 <223> OTHER INFORMATION: X3 is Ala, Arg, Asn, Gln, Glu, His, Phe, Pro, or Thr
 (preferably
 200 Ala);
 203 <220> FEATURE:
 204 <221> NAME/KEY: MISC_FEATURE
 205 <222> LOCATION: (5)..(5)
 206 <223> OTHER INFORMATION: X5 is Asn, Asp, Pro, Ser, or Thr (preferably Asp);
 209 <220> FEATURE:
 210 <221> NAME/KEY: MISC_FEATURE
 211 <222> LOCATION: (6)..(6)
 212 <223> OTHER INFORMATION: X6 is Arg, Asp, Ile, Leu, Met, Pro, or Val (preferably Ile);

215 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 09/06/2001

PATENT APPLICATION: US/09/932,613

TIME: 14:59:09

Input Set : A:\DYX25seq.txt

Output Set: N:\CRF3\09062001\I932613.raw

```

216 <221> NAME/KEY: MISC_FEATURE
217 <222> LOCATION: (7)..(7)
218 <223> OTHER INFORMATION: X7 is Ala, Ile, Leu , Pro, Thr, or Val (preferably Val or
Leu);
221 <220> FEATURE:
222 <221> NAME/KEY: MISC_FEATURE
223 <222> LOCATION: (8)..(8)
224 <223> OTHER INFORMATION: X8 is Asn, His, Ile, Leu, Lys, Phe, or Thr (preferably Thr);
227 <220> FEATURE:
228 <221> NAME/KEY: MISC_FEATURE
229 <222> LOCATION: (9)..(9)
230 <223> OTHER INFORMATION: X9 is Asn, Glu, Gly, His, Leu, Lys, Met, Pro, or Thr
(preferably
231     Leu);
234 <220> FEATURE:
235 <221> NAME/KEY: MISC_FEATURE
236 <222> LOCATION: (10)..(10)
237 <223> OTHER INFORMATION: X10 is Arg, Asn, Asp, Gln, Glu, Gly, Ile, Lys, Met, Pro,
Ser, or
238     Trp;
241 <220> FEATURE:
242 <221> NAME/KEY: MISC_FEATURE
243 <222> LOCATION: (11)..(11)
244 <223> OTHER INFORMATION: X11 is Arg, Glu, Gly, Lys, Phe, Ser, Trp, or Tyr (preferably
Ser)
245     ;
248 <220> FEATURE:
249 <221> NAME/KEY: MISC_FEATURE
250 <222> LOCATION: (13)..(13)
251 <223> OTHER INFORMATION: X13 is Gln, Glu, Ile, Leu, Phe, Pro, Ser, Tyr, or Val
(preferably
252     Val);
255 <220> FEATURE:
256 <221> NAME/KEY: MISC_FEATURE
257 <222> LOCATION: (14)..(14)
258 <223> OTHER INFORMATION: X14 is Asn, Gly, Ile, Phe, Pro, Thr, Trp, or Tyr;
261 <220> FEATURE:
262 <221> NAME/KEY: MISC_FEATURE
263 <222> LOCATION: (15)..(15)
264 <223> OTHER INFORMATION: X15 is Asn, Asp, Glu, Leu, Lys, Met, Pro, or Thr (preferably
Glu
265     or Pro),
268 <400> SEQUENCE: 3
-> 270 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
271 1      .      5      10      15
274 <210> SEQ ID NO: 4
275 <211> LENGTH: 16
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: BLys binding polypeptide
282 <220> FEATURE:
283 <221> NAME/KEY: MISC_FEATURE

```

284 <222> LOCATION: (1)..(1)

285 <223> OTHER INFORMATION: X1 is Asn, Asp, His, Leu, Phe, Pro, Ser, Tyr, or is absent
(prefe

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001
 TIME: 14:59:09

Input Set : A:\DYX25seq.txt
 Output Set: N:\CRF3\09062001\I932613.raw

```

286      rably Ser);
289 <220> FEATURE:
290 <221> NAME/KEY: MISC_FEATURE
291 <222> LOCATION: (2)..(2)
292 <223> OTHER INFORMATION: X2 is Arg, Asn, Asp, His, Phe, Ser, or Trp (preferably Arg);
295 <220> FEATURE:
296 <221> NAME/KEY: MISC_FEATURE
297 <222> LOCATION: (3)..(3)
298 <223> OTHER INFORMATION: X3 is Asn, Asp, Leu, Pro, Ser, or Val (preferably Asn or
Asp);
301 <220> FEATURE:
302 <221> NAME/KEY: MISC_FEATURE
303 <222> LOCATION: (5)..(5)
304 <223> OTHER INFORMATION: X5 is Asp, Gln, His, Ile, Leu, Lys, Met, Phe, or Thr;
307 <220> FEATURE:
308 <221> NAME/KEY: MISC_FEATURE
309 <222> LOCATION: (6)..(6)
310 <223> OTHER INFORMATION: X6 is His, Ile, Leu, Met, Phe, Pro, Trp, or Tyr;
313 <220> FEATURE:
314 <221> NAME/KEY: MISC_FEATURE
315 <222> LOCATION: (7)..(7)
316 <223> OTHER INFORMATION: X7 is Asp, His, Leu, or Ser (preferably Asp);
319 <220> FEATURE:
320 <221> NAME/KEY: MISC_FEATURE
321 <222> LOCATION: (8)..(8)
322 <223> OTHER INFORMATION: X8 is Ala, Arg, Asp, Glu, Leu, Phe, Pro, or Thr (preferably
Glu o
323      r Pro);
326 <220> FEATURE:
327 <221> NAME/KEY: MISC_FEATURE
328 <222> LOCATION: (9)..(9)
329 <223> OTHER INFORMATION: X9 is Ala, Arg, Asn, or Leu (preferably Leu);
332 <220> FEATURE:
333 <221> NAME/KEY: MISC_FEATURE
334 <222> LOCATION: (10)..(10)
335 <223> OTHER INFORMATION: X10 is Ile, Leu, Met, Pro, Ser, or Thr (preferably Thr);
338 <220> FEATURE:
339 <221> NAME/KEY: MISC_FEATURE
340 <222> LOCATION: (11)..(11)
341 <223> OTHER INFORMATION: X11 is Ala, Arg, Asn, Gly, His, Lys, Ser, or Tyr;
344 <220> FEATURE:
345 <221> NAME/KEY: MISC_FEATURE
346 <222> LOCATION: (12)..(12)
347 <223> OTHER INFORMATION: X12 is Ala, Arg, Asn, Gln, Leu, Met, Ser, Trp, Tyr, or Val;
350 <220> FEATURE:
351 <221> NAME/KEY: MISC_FEATURE
352 <222> LOCATION: (14)..(14)
353 <223> OTHER INFORMATION: X14 is Asp, Gly, Leu, Phe, Tyr, or Val (preferably Leu);
356 <220> FEATURE:
357 <221> NAME/KEY: MISC_FEATURE
358 <222> LOCATION: (15)..(15)

```

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/932,613

DATE: 09/06/2001
TIME: 14:59:10

Input Set : A:\DYX25seq.txt
Output Set: N:\CRF3\09062001\I932613.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:1174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
L:2574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:2650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:2768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126
L:2816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129
L:2878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133
L:2926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136
L:2960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138
L:3000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140
L:3032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141
L:3058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142
L:3084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:3104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
L:3136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:3198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149
L:3246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152
L:3328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157
L:3360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158
L:3392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159
L:3432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161
L:3464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162
L:3646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172
L:4417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185
L:8241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446
L:8311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:447
L:8361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448